Attorney Docket No.: 14836-53545

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Amendments to the Claims

This listing of claims will replace all prior version and listings of claims in the application:

Listing of Claims:

- (Currently amended): A method of determining voltage changes by means of a voltage-sensitive dye, characterized in that the voltage-sensitive dye is irradiated with light having a wavelength at which the dye has an absorption ≤ 20% of its absorption maximum and the-fluorescence caused by irradiation with light is measured.
- 2. (Original): The method according to claim 1, characterized in that the wavelength of the irradiated light is such that the dye has an absorption of $\leq 12\%$, in particular $\leq 8\%$ and preferably $\leq 2\%$ of its absorption maximum at said wavelength.
- 3. (Original): The method according to claim 1, characterized in that the wavelength of the irradiated light is in the longer wavelength range, related to the absorption maximum.
- 4. (Currently amended): The method according to <u>claim 1</u> any of the preceding claims, characterized in that an increase or decrease of the fluorescence is measured.
- 5. (Currently amended): The method according to <u>claim 1</u> any of the preceding claims, characterized in that it is used to determine voltage changes in cells.
- 6. (Currently amended): The method according to <u>claim 1</u> any of the preceding claims, characterized in that it is used to determine voltage changes in membranes, especially cell membranes.
- 7. (Currently amended): The method according to <u>claim 1</u> any of the preceding claims, characterized in that, as voltage-sensitive dye, a compound of formula (I)

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or-formula (II)

is used, wherein

each R independently is a hydrocarbon residue, which optionally can be substituted with hydroxyl,

R¹ is a monovalent residue,

n is an integer from 1 to 9, and

n is an integer from 0 to 8,

which compounds optionally can have one or more substituents at ring carbon atoms.

- 8. (Currently amended): The method according to <u>claim 1</u> any of the preceding claims, characterized in that ANNINE-4, ANNINE-5, ANNINE-6, ANNINE-7, ANNINE-8 or ANNINE-9 is used as a voltage-sensitive dye.
- (Currently amended): The method according to <u>claim 1</u> any of the preceding claims, characterized in that a change of fluorescence radiation caused by the Stark effect is measured.
- 10. (Currently amended): The method according to <u>claim 1</u> any of the preceding claims, characterized in that a two-photon excitation is effected.
- 11. (Currently amended): Voltage-sensitive dye having the formula (I)

or-formula (II)

wherein

each R independently is a hydrocarbon residue, which optionally can be substituted with hydroxyl,

R¹ is a monovalent residue,

n is an integer from 1 to 9, and

n is an integer from 0 to 8,

which compounds optionally can have one or more substituents at ring carbon atoms.